

## **APPENDIX 3: BINS FRAMEWORK**



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### FRAMEWORK FOR COMPLETING THE BINS PROJECT: "IMPROVING THE CROSS-BORDER FLOW"

#### **Levels of Review:**

*SourcePoint → CALTRANS → BINS Technical Committee → Joint Working Committee*

**Project Goals: A Standardized Quantifiable Methodology for Evaluating Border-Related Transportation Corridors and a Listing of Transportation Related Projects on Selected Binational Transportation Corridors**

#### **PHASE I**

1. **LITERATURE REVIEW (On going throughout entire study).** SourcePoint will collect, review, and summarize literature addressing border region transportation.
  - a. **Planning Process:** Create a synopsis of the U.S. and Mexican Transportation Planning and Programming Processes.
  - b. **Bibliography:** Prepare a bibliography and annotated bibliography of the relevant studies and articles.
2. **Corridor Evaluation Procedure & Methodology.** SourcePoint will develop a procedure to create a corridor evaluation methodology.
  - a. **Procedure:**
    - i. SourcePoint will review other corridor studies to ascertain methods for specifying and evaluating transportation corridors. It will also develop the rationale to utilize specified data elements in the corridor evaluation process.
    - ii. SourcePoint will receive approval by the BINS Technical Committee to develop a "procedure" to create a methodology to evaluate transportation corridors. After the development of a corridor evaluation methodology, SourcePoint will seek approval by the JWC.
  - b. **Methodology:** SourcePoint will develop a standardized methodology for analyzing transportation corridors within each state.
    - i. The first part of the methodology consists in the development of a questionnaire to gather information about each border-state's transportation system.

- ii. The second part of the methodology consists of gathering, using the developed questionnaire from each border-state. This data will be used as the basis for the analysis of each state's transportation corridors.

**Deliverables:**

**1. BINS Communication Memo # 1 [FEB 2003]**

- 3. **Corridor Data Request.** SourcePoint will request data from each border-state that will be used to evaluate the transportation corridors.
  - a. **Quantifiable Corridor Data:** This section will gather information that will be use to describe and evaluate the transportation corridors.
  - b. **Socio-Economic Regional Data:** This section will gather socio-economic information from each individual border-state and their respective counties. The information includes data on population, employment, trade, regional product, and personal income.
  - c. **Bilingual Data:** Questionnaires will be translated into Spanish for the six Spanish speaking states of Mexico
  - d. **Other Data:** Any other data requested by SourcePoint

**Note:** SourcePoint will obtain approval from BINS Technical Committee members on the corridor criteria and corridor evaluation used in the questionnaires.

**Deliverables:**

**2. Survey Completion Memos [FEB 2003]**

**3. Survey Management Memo # 1 [MARCH 2003]**

- 4. **Corridor Evaluation Database.** Prepare a database that will be used to organize and store the data provided by each border-state as part of the Corridor Data Request (Phase I, task 3).
  - a. **Compilation:** Data received from the ten border-states will be compiled into a database.
  - b. **Analysis & Evaluation:** Data will be analyzed according to a specific evaluation method and will be used to evaluate transportation corridors for one of the border-states.
- 5. **Other Relevant Tasks.** Any task that is related to the development and completion of the BINS study, but that does not fit within the specific set of tasks presented above (i.e. maintain contact with Technical Committee members on a regular basis).

**Deliverables:**

**4. Corridor Survey Instruments [MARCH 2003]**

**5. Technical Memo # 3 - Proposed Resolution [MARCH 2003]**

**6. Phase I Report: Corridor Identification and Evaluation Procedure (with up to date literature review) [MARCH 2003]**

## PHASE I-A

1. **California Database Review.** Upon receipt of the California data, SourcePoint will assemble all data covering the California region in its database. This data will be reviewed by the appropriate California agencies and inconsistencies will be resolved.

### **Deliverables:**

#### **7. California Survey Instrument [APRIL 2003]**

2. **California Corridor Analysis.** Conduct analysis of California Transportation Corridors. SourcePoint will use the developed Corridor Evaluation Methodology to identify corridors that serve the binational border within California.
  - a. **Identification:** SourcePoint will identify transportation corridors in California.
  - b. **Evaluation:** SourcePoint will evaluate the identified transportation corridors using the developed methodology. The results of this evaluation will provide a corridor's list where corridors are listed top to bottom depending on their specific needs (i.e. the corridor listed first in an evaluation of a group of corridors will mean that corridor has the most needs out of that group).
3. **California Project Database and Evaluation.** SourcePoint will start assembling a list of proposed California corridor-related projects through 2020.

### **Deliverables:**

#### **8. BINS Assessment for California [MAY 2003]**

#### **9. Phase IA Report: California-Baja California BINS Report [MAY 2003]**

## PHASE II

1. **Border-States Database Review.** SourcePoint will assemble all data covering the remaining border-states in a database. This data will be reviewed by the appropriate state agencies and inconsistencies will be resolved.

### **Deliverables:**

#### **10. Border-States Survey Instruments [JUNE 2003]**

2. **Border-States Corridor Analysis.** Upon review of the data, SourcePoint and the JWC BINS Committee will identify and select transportation corridors that serve the binational border within each individual border-state.
  - a. **Identification:** SourcePoint will identify transportation corridors along the border. This identification process will also analyze the relationship between regional demographic trends and the effect of these trends on the selected transportation corridors.

- b. **Needs Assessment:** SourcePoint will perform a Border Analysis Infrastructure Needs Assessment Study for the entire border region. The study identifies the needs and deficiencies of transportation corridors.

**Note:** SourcePoint will obtain approval from BINS Technical Committee to use a corridor identification “procedure” when selecting border-related transportation corridors with the JWC [July 2003 meeting].

**Deliverables:**

**11. Corridor Evaluation Findings [AUGUST 2003]**

- 3. **Border-States Project Database and Evaluation.** SourcePoint will assemble a list of proposed border-states corridor-related projects through 2020.
  - a. **Database:** The projects will be assembled in Excel database format. The projects will also be assigned to their appropriate corridor by using GIS coordinates.
  - b. **Evaluation:** SourcePoint will identify the projects that improve corridor flow. This identification process will analyze projects under construction and planned projects.  
*Example: The project’s AADT by segment will be matched to the highway’s AADT by segment.*

**Deliverables:**

**12. Transportation Projects Findings [AUGUST 2003]**

**13. Border Infrastructure Needs Assessment [SEPTEMBER 2003]**

- 4. **Identify Funding Sources.** Explore funding options and innovative financing strategies for each corridor’s and their respective transportation projects.
  - a. **Existing Funding Processes:** Identify existing funding processes for the financing of proposed projects on the identified corridors.
  - b. **Innovative Funding Processes:** Explore alternative innovative funding processes that could be used for the financing of proposed projects on the corridors.

**Deliverables:**

**14. Suggested Legislative Provisions Draft [SEPTEMBER 2003]**

- 5. **Recommendation Memo.** Draft Corridor Improvements Recommendation Memo including provisions for TEA-21 and reauthorization and Mexican legislation. SourcePoint and the JWC will include discussions on key project elements such as short and long-term priorities, corridors needs, state’s binational infrastructure relations, and any other important components of the BINS analysis.

**Deliverables:**

**15. Suggested Legislative Provisions [SEPTEMBER 2003]**

**16. Submit Phase II Report: Final Report [NOVEMBER 2003]**